

From gjones@tenet.edu Sun Jan 01 12:54:05 1995
Return-Path: <gjones@tenet.edu>
Received: from Alice-Thurman.tenet.edu by dptspd.sat.datapoint.com with smtp
(Smail3.1.29.1 #5) id m0r0VPk-0000dCC; Sun, 1 Jan 95 12:54 CST
Received: (from gjones@localhost) by Alice-Thurman.tenet.edu (8.6.9/8.6.9) id
MAA02347; Sun, 1 Jan 1995 12:53:57 -0600
From: Greg Jones <gjones@tenet.edu>
Message-Id: <199501011853.MAA02347@Alice-Thurman.tenet.edu>
Subject: TrakBox problem
To: amsat-bb@Alice-Thurman.tenet.edu, tapr-bb@tapr.org (TAPR-BB mailing)
Date: Sun, 1 Jan 1995 12:53:57 -0600 (CST)
X-Mailer: ELM [version 2.4 PL23]
Content-Type: text
Content-Length: 610

Just as a note, TAPR is aware of the problem folks have been having with the
TrakBox firmware. Jack Davis, WA4EJR, is working on the issue.

We will make a full announcement as soon as a solution has been made
available to us from the designers.

Cheers - Greg, WD5IVD

President -- Tucson Amateur Packet Radio Corp

TAPR Office (817) 383-0000 | Internet: gjones@tenet.edu

From gjones@tenet.edu Sun Jan 01 19:04:23 1995
Return-Path: <gjones@tenet.edu>
Received: from Alice-Thurman.tenet.edu by dptspd.sat.datapoint.com with smtp
(Smail3.1.29.1 #5) id m0r0bC7-00017HC; Sun, 1 Jan 95 19:04 CST
Received: (from gjones@localhost) by Alice-Thurman.tenet.edu (8.6.9/8.6.9) id
TAA03433; Sun, 1 Jan 1995 19:04:18 -0600
From: Greg Jones <gjones@tenet.edu>
Message-Id: <199501020104.TAA03433@Alice-Thurman.tenet.edu>
Subject: TrakBox problems (followup)
To: tapr-bb@tapr.org (TAPR-BB mailing),
amsat-bb@amsat.org (AMSAT BB Mail Group)
Date: Sun, 1 Jan 1995 19:04:18 -0600 (CST)
X-Mailer: ELM [version 2.4 PL23]
Content-Type: text
Content-Length: 642

Active TrakBox users were made aware of the new year by a nasty problem
raising its ugly head. It is currently being addressed and a solution
will be posted here, Compuserve and on the digital birds as soon as it is
available.

Dave Medley (KI6QE) called early this morning to offer the following
suggestion. Simply reset the clock using the following example.

94/12/32 time UTC This is the normal format except the date portion.

I tried it and it seems to be working beyond the current day which is the first of January.

Please spread the word and stay tuned for a permanent solution.

73

Jack Davis - WA4EJR
TAPR TrakBox Manager

From gjones@tenet.edu Fri Jan 06 00:02:04 1995
Return-Path: <gjones@tenet.edu>
Received: from Alice-Thurman.tenet.edu by dptspd.sat.datapoint.com with smtp
(Smail3.1.29.1 #5) id m0rQ7kN-0000KwC; Fri, 6 Jan 95 00:01 CST
Received: (from gjones@localhost) by Alice-Thurman.tenet.edu (8.6.9/8.6.9) id
AAA24567; Fri, 6 Jan 1995 00:01:58 -0600
From: Greg Jones <gjones@tenet.edu>
Message-Id: <199501060601.AAA24567@Alice-Thurman.tenet.edu>
Subject: TAPR: TrakBox Update on Firmware Correction
To: tapr-bb@tapr.org (TAPR-BB mailing),
amsat-bb@amsat.org (AMSAT BB Mail Group)
Date: Fri, 6 Jan 1995 00:01:58 -0600 (CST)
X-Mailer: ELM [version 2.4 PL23]
Content-Type: text
Content-Length: 1619

TAPR: TrakBox Firmware Update 1/5/95

As most active TrakBox users must know by now, there is a bug in firmware versions 3.30a through 3.30h. The problem relates to the the clock settings - now that we are in the year 1995. New code is available from various sources for the benefit of those users who -have programming capability. The code will be posted on ko-23 and ko-25 as soon as the birds are back in normal service. You can also find the code in DL5 of the Hamnet SIG on Compuserve. We expect it will become available in many more places after that as users spread the word.

Thanks to Sueo Asato, JA6FTL, for providing version 3.30i so quickly.

For the benefit of users not having programming capability, TAPR will start taking orders starting on Friday, Jan 6th. New ROMS will cost \$12 + \$2 for US Shipping/Handling. Shipping will start when the office resumes normal operations on Tuesday, Jan 10th, 1995.

If you received a TrakBox from TAPR after Nov 1, 1994, then contact the office about the procedure to get your EPROM replaced.

Jack Davis, WA4EJR - TAPR TrakBox Manager

Tucson Amateur Packet Radio

8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399

Voice: 817-383-0000

Fax: (817) 566-2544

NOTE: The TAPR Office opens full-time again on Tuesday, Jan 10th.
The office has been taking orders by fax and voice mail during the
holiday break.

From gjones@tenet.edu Tue Jan 10 23:44:46 1995

Return-Path: <gjones@tenet.edu>

Received: from Alice-Thurman.tenet.edu by dptspd.sat.datapoint.com with smtp
(Smail3.1.29.1 #5) id m0rRvrP-0001RSC; Tue, 10 Jan 95 23:44 CST

Received: (from gjones@localhost) by Alice-Thurman.tenet.edu (8.6.9/8.6.9) id
XAA02398; Tue, 10 Jan 1995 23:44:40 -0600

From: Greg Jones <gjones@tenet.edu>

Message-Id: <199501110544.XAA02398@Alice-Thurman.tenet.edu>

Subject: TNC-2 1.1.9 Firmware Announcement

To: tapr-bb@tapr.org (TAPR-BB mailing), aprssig@tapr.org (APRS SIG)

Date: Tue, 10 Jan 1995 23:44:39 -0600 (CST)

X-Mailer: ELM [version 2.4 PL23]

Content-Type: text

Content-Length: 5173

TAPR TNC-2 Release 1.1.9

Tuesday, January 10th, 1995

TAPR is proud to announce the release of version 1.1.9 for the TNC-2. 1.1.9
EPROMS with command booklet will be available from the office starting
January 10th, 1995. 1.1.9 will replace the current 1.1.8a being distributed
by TAPR.

Release 1.1.9 incorporates these new features:

- o - Modified P-Persistence
- o - Enhanced monitor mode filtering
- o - Support for Dallas Semiconductor RSmartwatchS (tm) socket
- o - NMEA beaconing mode
- o - CW identification in FSK using the onboard packet modem

And these changes:

- o - The pound sign ASCII character "#" is allowed in callsigns
- o - The "OUT" command installed in version 1.1.8 is removed
- o - In addition to identification at 9.5 minute intervals, the HID function

transmits an identification packet upon incoming connect acknowledge, outgoing connect attempt success, disconnection, and cancellation of outgoing connect attempts.

- o - DWAITS is now applied to digipeated and non-digipeated packets
- o - Delay equivalent to the current DCD backoff time is applied after transmit release to prevent multiple transmissions with extremely small delays in between

NMEA Beacon Function

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TNC-2 now incorporates a dedicated mode enabling the broadcast of one or two NMEA version 2.00 (and compatible) sentences to the UNPROTO address. When placed in NMEA mode with a non-zero value in the NMEABCN parameter, the TNC broadcasts the most recently received sentences received from the attached NMEA talker on the radio link. No other outgoing transmissions are permitted with the exception of identification, beacon, CTEXT, and mailbox data (*if supported).

NMEA devices provide an ASCII output at 4800 baud, 8/N/1, consisting of one or more types of sentences containing various types of data. Most commonly these data contain navigation fixes. For example, the authorUs global positioning system receiver (Garmin model GPS-55AVD) generates sentences containing the receiverUs longitude and latitude (fix), time of the fix, groundspeed, waypoint data, and the like.

An example:

```
$GPRMC,034523,Y,02754.31,N,08023.03,W,1.5,035,031294,4,W*23<cr><lf>
```

Meaning:

R\$GPRMCS - Indicates the type of data (RMC-minimum recommended GPS sentence)

034523 - UTC hh/mm/ss

Y - data valid

02754.31,N - longitude

08023.03,W - latitude

1.5 - groundpseed

035 - Track made good over the ground (degrees true)

031294 - date ddmmyy

4,W - magnetic variation, West

23 - checksum (ignored by the TNC)

(Note that this example sentence was not actually generated by the unit and the checksum is probably wrong)

Modified P-Persistence

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P-persistence is a channel sharing technique that has gained great favor in the TCP/IP world. A modified form of P-persistence It is now included in TAPR TNC-2 as an alternative to prioritized acknowledgements and DWAITS.

Modified P-persistence relies on two principles to achieve a more equitable sharing of the common frequency. First, when the TNC waits a random multiple of DWAIT after hearing another station before it transmits. The upper limit of the random value is user defined by the PERSIST parameter to prevent frequency monopolization by stations placing unusually heavy demands on the frequency, as with the case of a file transfer. Modified P-persistence increases the likelihood that a station with higher priority traffic can acquire the channel.

The second way modified P-persistence promotes channel sharing is by gradually increasing the wait time when the TNC executes retry transmissions.

Modified P-persistence as implemented in TNC-2 differs from standard P-persistence in that acknowledged retries do not cause the time delays to cumulate. After a retry is successfully acknowledged the TNC reverts to the shorter delay that assumes a perfect channel. Another difference is that the retry delay is applied only to connections on stream A.

Monitoring Improvement

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The TNC will examine the contents of each monitored packet for nonprinting ASCII characters and discard the entire packet if at least one is detected. Nonprinting characters means any ASCII character less than the space character except for BELL, LF, and CR, and the DEL character. The test occurs after masking off the high order bit. By setting MNONPRIN to OFF, and in concert with MNONAX25 OFF, the TNC will filter nearly all screen-garbage inducing monitored packets.

The 1.1.9 TNC-2 executable is (c) 1994 InfoMotion, Inc. All rights reserved.

TNC-2 firmware is provided "AS-IS" AND THE USER ASSUMES THE ENTIRE RISK OF UTILIZING THE FIRMWARE. TNC-2 FIRMWARE IS NOT INTENDED NOR IS IT PROVIDED FOR ANY PURPOSE, INCLUDING NAVIGATION, WHEN FAILURE OF THE FIRMWARE, OR HARDWARE, OR BOTH, MIGHT CAUSE BODILY INJURY OR LOSS OF PROPERTY.

Tucson Amateur Packet Radio

8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399

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From gjones@tenet.edu Thu Jan 12 03:08:29 1995

Return-Path: <gjones@tenet.edu>

Received: from Alice-Thurman.tenet.edu by dptspd.sat.datapoint.com with smtp (Smail3.1.29.1 #5) id m0rSLW7-0000hFC; Thu, 12 Jan 95 03:08 CST

Received: (from gjones@localhost) by Alice-Thurman.tenet.edu (8.6.9/8.6.9) id

DAA11052 for tapr-bb@tapr.org; Thu, 12 Jan 1995 03:08:25 -0600
From: Greg Jones <gjones@tenet.edu>
Message-Id: <199501120908.DAA11052@Alice-Thurman.tenet.edu>
Subject: TAPR on RAIN
To: tapr-bb@tapr.org (TAPR-BB mailing)
Date: Thu, 12 Jan 1995 03:08:25 -0600 (CST)
X-Mailer: ELM [version 2.4 PL23]
Content-Type: text
Content-Length: 728

TAPR on RAIN (Radio Amateur Information Network)

We have been informed that the TAPR presentation given at Dayton '94 on 'Packet Radio for the Beginner' will be broadcast beginning on Friday, January 13th, 1995 by RAIN (Radio Amateur Information Network). Hap Holly, KC9RP, said that the presentation would be done over two segments.

The presentation given at Dayton in 1994, focuses on how amateurs can get on packet radio from the What? Why? and How? perspectives. What is packet radio, why should you want on packet radio, and how you get on packet radio (equipment and other items).

TAPR would like to thank RAIN for this chance to further our educational efforts.

From gjones@tenet.edu Tue Jan 24 23:22:27 1995
Return-Path: <gjones@tenet.edu>
Received: from Gayle-Gaston.tenet.edu by dptspd.sat.datapoint.com with smtp (Smail3.1.29.1 #5) id m0rX0BV-0000JHC; Tue, 24 Jan 95 23:22 CST
Received: (from gjones@localhost) by Gayle-Gaston.tenet.edu (8.6.9/8.6.9) id XAA29976 for tapr-bb@tapr.org; Tue, 24 Jan 1995 23:22:23 -0600
From: Greg Jones <gjones@tenet.edu>
Message-Id: <199501250522.XAA29976@Gayle-Gaston.tenet.edu>
Subject: FYI--Hot news!: Vanity Call Sign News Release (fwd)
To: tapr-bb@tapr.org (TAPR-BB mailing)
Date: Tue, 24 Jan 1995 23:22:23 -0600 (CST)
X-Mailer: ELM [version 2.4 PL23]
Content-Type: text
Content-Length: 3164

According to Battles, Brian, WS10:
>From bbattles@arrl.org Tue Jan 24 18:36:22 1995

From: Jahnke, Bart, KB9NM
To: 'arrl-ve-list'
Subject: Vanity Call Sign News Release
Date: Tuesday, January 24, 1995 17:15

Late-breaking news!

-- Bart Jahnke, KB9NM, ARRL/VEC Manager

FCC NEWS

Report No. DC95-19 ACTION IN DOCKET CASE January 24, 1995

COMMISSION AMENDS AMATEUR SERVICE RULES TO IMPLEMENT A VANITY CALL SIGN SYSTEM

(PR DOCKET NO. 93-305)

In recognition of the strong sense of identity among amateur operators that's grounded in the call signs of their stations, the Commission has decided to offer a vanity call sign system to the amateur service community. The Commission will also resume issuing new club and military recreation station licenses. The Commission said these actions are fundamental to its commitment to putting the needs of people first in providing the services they want.

Each new amateur station licensed by the FCC is assigned a unique call sign. An automated process selects the call sign in accordance with the sequential call sign system. Until recently, the Commission was unable to accommodate the many thousands of requests for call signs of the licensee's choice. The Commission stated that one of its many steps in reinventing Government is to implement new licensing processing capabilities that make it practicable to grant such requests.

The Commission will implement the new system by using a series of four "starting gates." Gate One would allow a previous holder of a call sign to apply for that call sign or, where the holder is deceased, a close relative could apply. Gate Two would allow the 66,000 Amateur Extra Class operators, who have passed the most difficult license examinations, to apply. Gate Three would allow the 112,000 Advanced Class operators, who have passed the second most difficult license examinations, to apply; and Gate Four would open the system to any licensee, including a club station license trustee applying for the call sign of a deceased former holder. The Commission will announce the opening of each gate by a Public Notice. The first gate will open as soon as the new application form, FCC Form 610-V, is available and the Commission's licensing facility is prepared to begin processing the applications.

With respect to new club station licenses, the Commission stated that persons not already holding a club station license must first apply for and receive a license before filing an application with the fee collection contractor requesting that the license be modified to show a vanity call sign. However, the Commission will begin accepting applications for new club and military recreation station licenses on the date the Report and Order in this proceeding becomes effective.

Action by the Commission December 23, 1994, by Report and Order (FCC

94-343). Chairman Hundt, Commissioners Quello, Barrett, Ness and Chong.

-FCC-

News Media contact: Patricia Chew at 202-418-0500.

Wireless Telecommunications Bureau contact: Maurice Depont at 202-418-0690.

From gjones@tenet.edu Wed Jan 25 01:09:11 1995

Return-Path: <gjones@tenet.edu>

Received: from Alice-Thurman.tenet.edu by dptspd.sat.datapoint.com with smtp
(Smail3.1.29.1 #5) id m0rX1qn-000151C; Wed, 25 Jan 95 01:09 CST

Received: (from gjones@localhost) by Alice-Thurman.tenet.edu (8.6.9/8.6.9) id
BAA12568 for tapr-bb@tapr.org; Wed, 25 Jan 1995 01:09:07 -0600

From: Greg Jones <gjones@tenet.edu>

Message-Id: <199501250709.BAA12568@Alice-Thurman.tenet.edu>

Subject: ftp.tapr.org and www.tapr.org

To: tapr-bb@tapr.org (TAPR-BB mailing)

Date: Wed, 25 Jan 1995 01:09:07 -0600 (CST)

X-Mailer: ELM [version 2.4 PL23]

Content-Type: text

Content-Length: 2434

TAPR announces new FTP and WWW site

Jan 25, 1995

TAPR is proud to announce the opening of 'ftp.tapr.org' and 'www.tapr.org'.
Both of these resources are available now.

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ftp.tapr.org

Our new ftp site will allow full access to the TAPR software library while
providing space for SIGs, on-going projects, and access to the various files
and information that had been available only on listserv@tapr.org.

Access is available for anonymous login, using a password of
'your_account@your_address'. When accessing, all files and subdirectories
are available in the tapr sub-directory.

tapr/
 dsp93/ (files regarding the TAPR/AMSAT dsp-93 project)
 projects/ (closed area for on-going TAPR projects)
 taprinfo.txt file on tapr general info
 general/ (general file regarding packet radio)
 9600baud/ (files regarding 9600 baud)
 psr/ (text versions of back issues of the PSR)
 utils/ (general utils)
 SIG/ (SIG directory, contains files, and will contain
 aprssig/ archives in the future)
 bbssig/
 hfsig/
 netsig/

info/ (TAPR information)
 kit/ (information, prices, orderform, on kits)
software_lib/ (TAPR software library)
 utils/
 tcpip/
 misc/
 tnc/
 switch/
 terminal/
 sat/
 bbs/

ftp.tapr.org will continue to develop in the coming weeks as more files from previous systems are brought on-line.

=====

www.tapr.org

With the new site comes an expanded and more dynamic set of WWW pages. While the initial pages will look somewhat like the old pages, we will not be under the limitations we were with the original site. Howie, N2WX, will continue to manage the pages.

You can reach the TAPR WWW pages at '<http://www.tapr.org/tapr>'

If you have comments or suggestions, Howie can be reached via the home page.

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As a reminder, this site is made possible by those who support TAPR as members. TAPR would like to thank the membership for there support and without whose membership, the money for this site would not have been possible. While Internet is a great resource for all, the money for this type effort must be generated. Membership is that device.